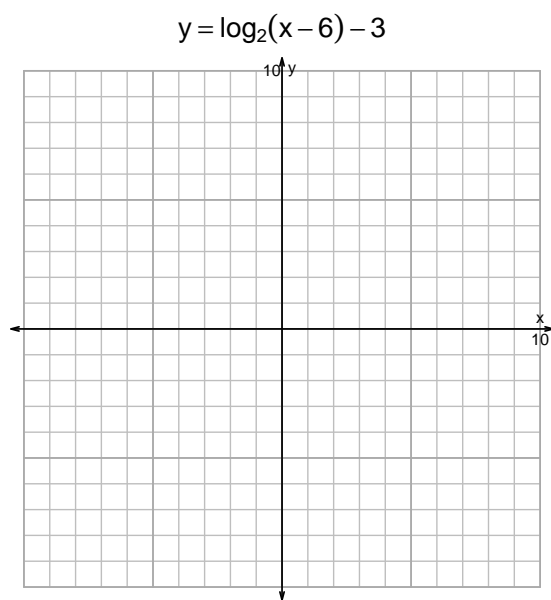
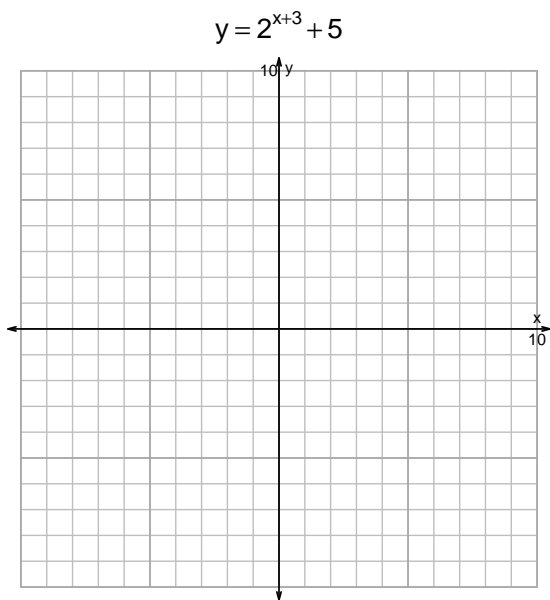


Name: \_\_\_\_\_

Date: \_\_\_\_\_

s18QUIZ: EXP LOG (QUIZ v254)

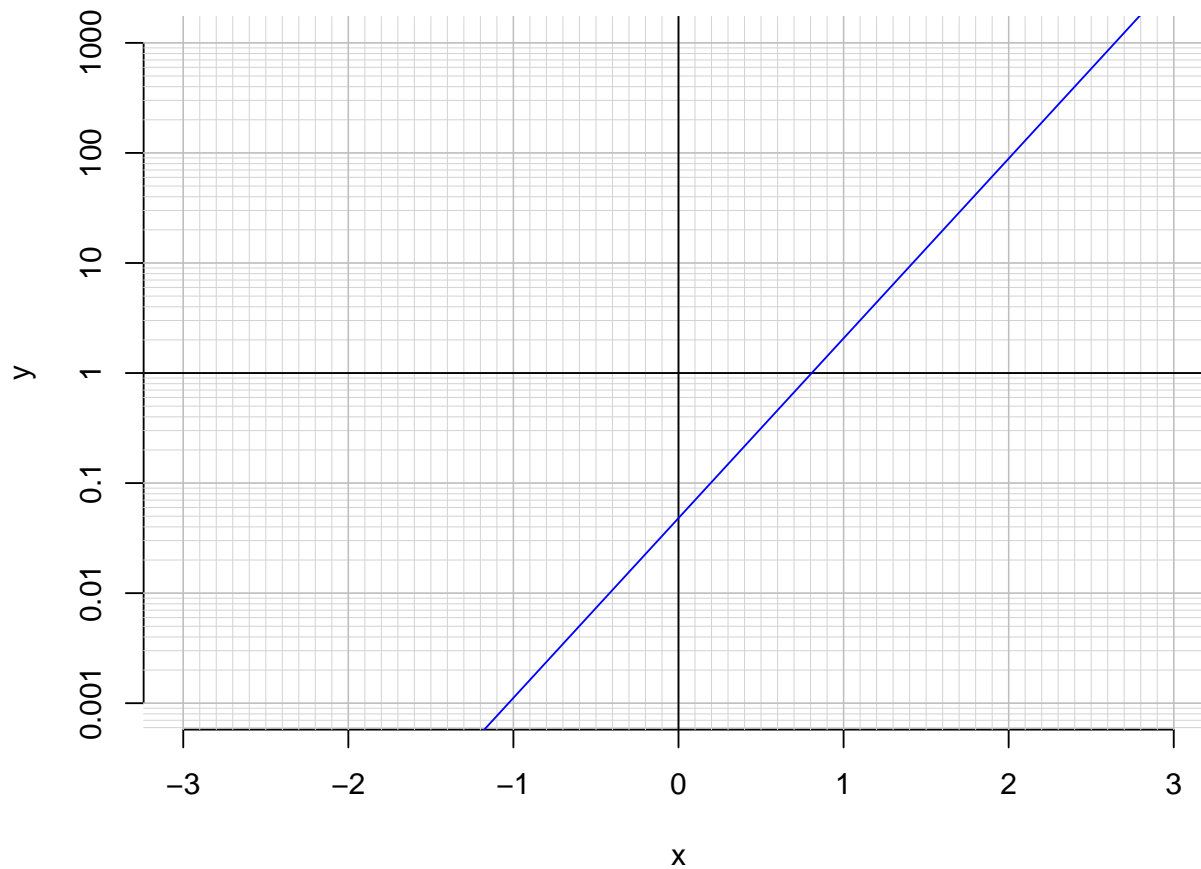
1. Graph  $y = 2^{x+3} + 5$  and  $y = \log_2(x - 6) - 3$  on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$11 = \left(\frac{5}{4}\right) \cdot 10^{3t/7}$$

3. An exponential function  $f(x) = 0.0481 \cdot e^{3.76x}$  is graphed below on a semi-log plot.



- a. Using the plot above, evaluate  $f(0.1)$ .

- b. Express  $f^{-1}(x)$ , the inverse of  $f$ .

- c. Using the plot above, evaluate  $f^{-1}(400)$ .